

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
24 July 2003 (24.07.2003)

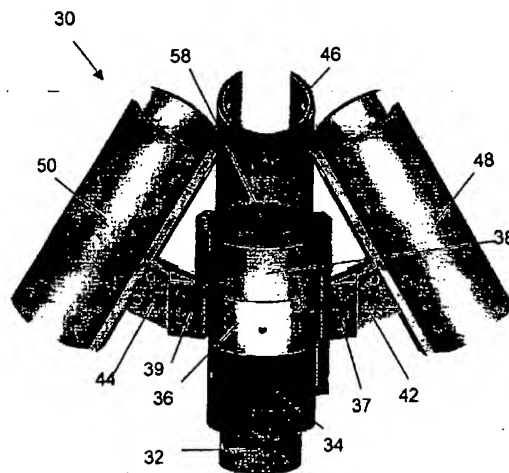
PCT

(10) International Publication Number  
WO 03/059434 A2

- (51) International Patent Classification<sup>7</sup>: A61N  
Nanyang Drive,, NTU Campus,, Singapore 637720 (SG).  
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Singapore 678948 (SG).
- (21) International Application Number: PCT/SG03/00014
- (22) International Filing Date: 21 January 2003 (21.01.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
200200342-4 21 January 2002 (21.01.2002) SG
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,  
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,  
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ULTRASONIC TREATMENT OF BREAST CANCER



(57) **Abstract:** A method of treatment, clinical treatment assembly, robotic manipulator and controlling arrangements for the treatment of cancers are described. The invention has particular application in the treatment of breast cancer. A robotic manipulator (18) carries a jig assembly (30). The jig assembly (30) includes an array of treatment probes (52, 54, 56) and a single identification/diagnostic probe (58). The probes can be moved by the robotic manipulator (18) in three directions (x, y,  $\theta$ ). A subject breast tissue is received in a tank (16) through an operating window (14), and the robotic manipulator (18) is to firstly determine the site of a tumour in the breast tissue. Once the tumour has been located by use of the identification/diagnostic probe (58), the treatment probes (52, 54, 56) are used to ablate the tumour by the superposition of ultrasonic waves at a focal region. A series of such lesions may be performed in sequence to traverse the full extent of the tumour.